

AMENDMENTS TO THE CLAIMS

1-32. (Cancelled)

33. (New) A system for a requested computing system to communicate asynchronously with a requesting computing system, the requesting computing system and the requested computing system communicating using a request/response protocol, the system comprising:

- a requesting component of the requesting computing system that sends a request to the requested computing system and that, in response to a response being received, sends another request to the requested computing system so that a request is outstanding and the requested computing system can send messages asynchronously by responding to an outstanding request;
- a receiving component of the requested computing system that receives requests from the requesting computing system; and
- a responding component of the requested computing system that, when a message is to be sent asynchronously to the requesting computing system, sends to the requesting computing system a response to an outstanding request of the requesting computing system that includes the message.

34. (New) The system of claim 35 wherein a request sent by the requesting computing system includes a message and wherein the receiving component retrieves the message from the request.

35. (New) The system of claim 34 wherein the responding component indicates in a response message received in a request and wherein the requesting component resends in a request a message that has not been indicated as having been received.

36. (New) The system of claim 34 wherein the requesting component includes in a request an indication of messages received in a response and wherein the responding component resends in a response a message that has not been indicated as having been received.

37. (New) The system of claim 33 wherein the requesting component includes in a request an indication of messages received in a response and wherein the responding component resends in a response a message that has not been indicated as having been received.

38. (New) The system of claim 33 including:
a component of the requesting computing system that sends a communication to the requested computing system using a non-request/response protocol and when a reply is not received from the requesting computing system, directs the sending of a request using the request/response protocol.

39. (New) The system of claim 38 wherein the request/response protocol is HTTP and the non-request/response protocol is TCP/IP.

40. (New) The system of claim 33 wherein the request/response protocol is HTTP.

41. (New) The system of claim 33 wherein a response includes multiple messages.

42. (New) A system for a requesting computing system and a requested computing system to send messages bi-directionally, the requesting computing system and the requested computing system communicating using a request/response protocol, the system comprising:

- a requesting component of the requesting computing system that sends requests that include messages to the requested computing system;
- a component of the requested computing system that accumulates messages to be sent to the requesting computing system;
- a receiving component of the requested computing system that receives requests and retrieves messages from the requests; and
- a responding component of the requested computing system that sends to the requesting computing system a response that includes the accumulated messages.

43. (New) The system of claim 42 wherein the responding component indicates messages received in a request and wherein the requesting component resends in a request a message that has not been indicated as having been received.

44. (New) The system of claim 42 wherein the requesting component includes in a request an indication of messages received in a response and wherein the responding component resends in a response a message that has not been indicated as having been received.

45. (New) The system of claim 42 including:

- a component of the requesting computing system that sends a message to the requested computing system using a non-request/response protocol and when a reply is not received from the requesting computing system, directs the sending of the message using the request/response protocol.

46. (New) The system of claim 45 wherein the request/response protocol is HTTP and the non-request/response protocol is TCP/IP.

47. (New) The system of claim 42 wherein the request/response protocol is HTTP.

48. (New) A system for a requesting computing system to send messages reliably to a requested computing system, the requesting computing system and the requested computing system communicating using a request/response protocol, the system comprising:

- a requesting component of the requesting computing system that sends to the requested computing system requests that include messages;
- a component of the requested computing system that receives requests from the requesting computing system;
- a responding component that sends to the requesting computing system a response to the received request that indicates the one or more messages received in the request; and
- a re-requesting component of the requesting computing system that, when a response indicates that a message was not received by the requested computing system, sends to the requested computing system a request that includes a message that was indicated as not having been received.

49. (New) The system of claim 48 wherein the responding component includes messages in responses, wherein the requesting component includes in a request an indication of messages received in a response, and wherein a re-responding component resends in a response a message that has not been indicated as having been received.

50. (New) The system of claim 48 including:

a component of the requesting computing system that sends a message to the requested computing system using a non-request/response protocol and when a reply is not received from the requesting computing system, directs the sending of the message using the request/response protocol.

51. (New) The system of claim 50 wherein the request/response protocol is HTTP and the non-request/response protocol is TCP/IP.

52. (New) The system of claim 48 wherein the request/response protocol is HTTP.

53. (New) A system for a requested computing system to send messages reliably to a requesting computing system, the requesting computing system and the requested computing system communicating using a request/response protocol, comprising:

a requesting component of the requesting computing system that sends requests to the requested computing system and includes in requests an indication of messages received in responses to the requests;

a component of the requested computing system that receives requests from the requesting computing system; and

a responding component that sends to the requesting computing system responses to the received requests, the responses including messages and re-including messages that have been indicated as not having been received by the requesting computing system.

54. (New) The system of claim 53 including:

a component of the requesting computing system that sends a communication to the requested computing system using a non-request/response protocol and

when a reply is not received from the requesting computing system, directs the sending of a request using the request/response protocol.

55. (New) The system of claim 54 wherein the request/response protocol is HTTP and the non-request/response protocol is TCP/IP.

56. (New) The system of claim 53 wherein the request/response protocol is HTTP.